Joint Rapid Airfield Construction

Evaluation of Earthmoving Technology

- **Objective**

  Determine the requirements for an enhanced earthmoving system that will meet contingency airfield construction efficiency goals by evaluating available systems under realistic airfield construction conditions.

- **Scope**

  Investigate mature products that incorporate GPS and/or laser technology to provide survey/grade control during airfield construction projects.

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Trimble's Site Vision GPS
Masarih Island, Oman

Joint Rapid Airfield Construction

Airfield Reconstruction Project conducted by 819th RED HORSE

- Survey and Grade Control accomplished solely by GPS
  - *Real Time Kinematic (RTK) GPS using Base Station*
  - *Motor Grader equipped with Trimble system*
  - *System provides on-board display as well as autonomous blade control*

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Joint Rapid Airfield Construction

- **Project will be used to evaluate the efficiency of the Trimble system**

- **Collected data will also be used to evaluate the effectiveness of the new rapid design procedure when using remote (satellite) elevation data**

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